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DATE MAILED: 07/24/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/927,771	08/10/2001	Erik Witthoefst Rasmussen	SNX-028	SNX-028 5620	
49679	7590 07/24/2006		EXAM	EXAMINER	
THELEN REID & PRIEST LLP			PENDLETON, BRIAN T		
SONIC			(
P.O. BOX 640	1640		ART UNIT	PAPER NUMBER	
SAN JOSE, CA 95164-0640			2615		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/927,771	RASMUSSEN, ERIK WITTHOEFFT			
	Office Action Summary	Examiner	Art Unit			
		Brian T. Pendleton	2615			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on <u>05 M</u>	av 2006				
		action is non-final.				
′=	·=					
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	Claim(s) 1-112 is/are pending in the application	1				
-	4a) Of the above claim(s) <u>9-43,45,56-88,90-109 and 112</u> is/are withdrawn from consideration.					
	Claim(s) 44,89 and 111 is/are allowed.					
	Claim(s) <u>1-8,46-51,53-55 and 110</u> is/are rejected	ed.				
	7)⊠ Claim(s) <u>52</u> is/are objected to.					
8)□	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers					
	The specification is objected to by the Examine	,				
·	10)⊠ The drawing(s) filed on <u>10 August 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
. 4/64	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the Ex					
	inder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).			
	☐ All b)☐ Some * c)☐ None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	$3.\square$ Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage			
	application from the International Bureau	(PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment	(s)					
1) Notice	e of References Cited (PTO-892)	4) Interview Summary				
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate Patent Application (PTO-152)			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	6) Other:	atent Application (PTO-104)			

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DETAILED ACTION

Election/Restrictions

Claims 9-43, 45, 56-88, 90-109, and 112 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species and inventions, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 5/5/06. These claims are deemed to read on the elected group and species by Applicant.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6, 8, 46-50, 53, 55, 110 are rejected under 35 U.S.C. 102(e) as being anticipated by Krasny et al, US Patent 6,738,481. Krasny et al teach a noise reduction apparatus and method comprising a plurality of microphones 104, 106, 108, wave parameter estimator 125, and forward filter gain controller 145. Krasny et al also teach FFT units 115 for performing differentiation with respect to time. There is a second analysis filter 120 connected to a second microphone.

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Claims 1, 7, 46, and 54 are rejected under 35 U.S.C. 102(b) as being anticipated by Elko et al, US Patent 5,586,191. Elko discloses an apparatus comprising microphones 1a, 1b, wave parameter estimator 6, and filter 5.

Claims 46 and 51 are rejected under 35 U.S.C. 102(b) as being anticipated by Choi et al, US Patent 5,978,490. Choi discloses a microphone directivity apparatus comprising a plurality of microphones, parameter estimator 53, and gain controllers 54 and 55. The parameter estimator 53 estimates a direction of sound.

Allowable Subject Matter

Claims 44, 89, and 111 are allowed.

Claim 52 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian T. Pendleton Primary Examiner Art Unit 2615

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btp